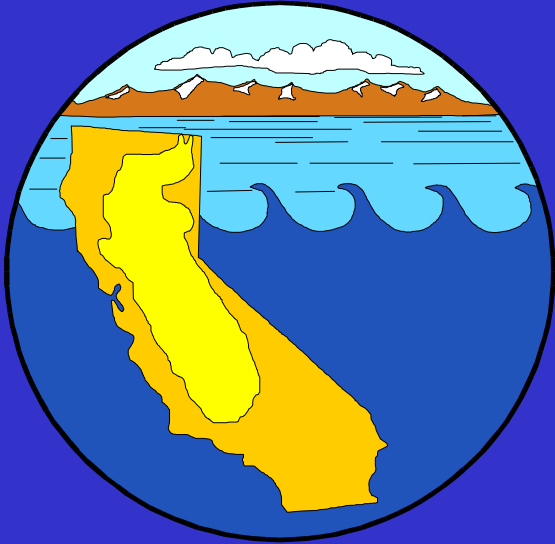


# **Regional Water Quality Control Board Central Valley Region**



## **Irrigated Lands Conditional Waiver Program**

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# Presentation Objective

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**Program Background**  
**Monitoring Objectives**  
**Monitoring Activities**  
**Initial Results**

# Program Background

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- Agriculture covered under Conditional Waiver until 1999 – SB 390
- Conditional Waiver requirements developed
- Option of complying through a Coalition Group or as an Individual Grower

# Existing Coalition Groups

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## Coalition Groups As 2006

- **Goose Lake** Resource Conservation District
- **Sacramento Valley** WQ Coalition
- **California Rice** Commission
- **San Joaquin County & Delta** WQ Coalition
- **Westside San Joaquin River** Watershed Coalition
- **Westlands WD** Coalition
- **San Luis WD** WQ Coalition
- **East San Joaquin** WQ Coalition
- **Southern San Joaquin Valley** WQ Coalition

# **Water Quality Control Plan**

## **Requirements related to Pesticides**

- No pesticides in water at amounts that affect beneficial uses
- Pesticides in sediments of aquatic life shall not effect beneficial uses
- Toxic substances in toxic amounts
- Some specific numeric limitations
- Implementation Plan

# **Program Monitoring Objectives**

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- **Assess impacts of discharges**
- **Determine degree of MP implementation**
- **Determine effectiveness of MPs**
- **Determine concentration and load of waste**
- **Evaluate compliance with water quality objectives**

# **Program Monitoring Activities – 2 types**

**Coalition Group and Individual  
Discharger Monitoring**

**Regional Board Monitoring through  
UC Davis  
UC Berkeley**

# Coalition Group Monitoring

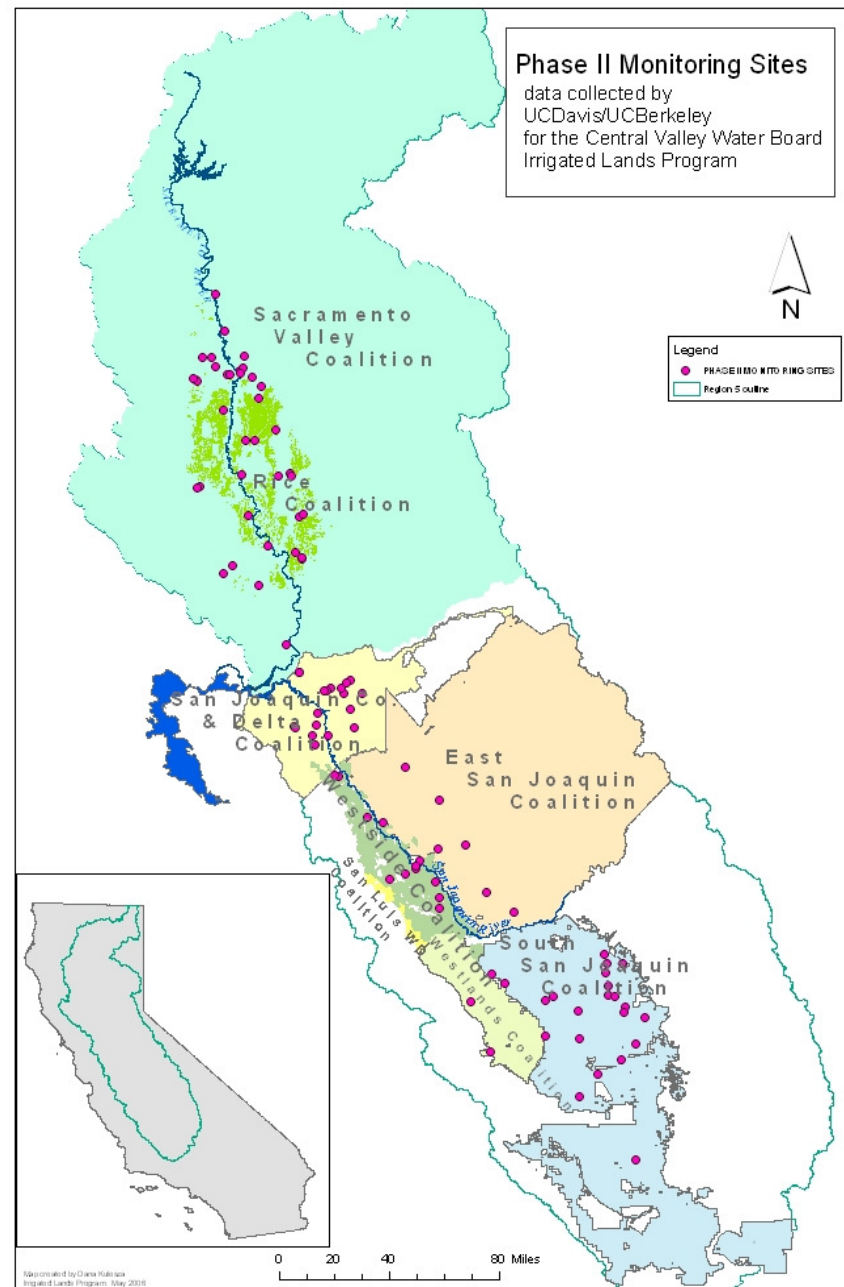
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- Self-designated monitoring plan including sample site selection
- Phased Approach
- Variability in monitoring approach across the region



# **Water Board Contract Monitoring with UCDavis**

- Water Board monitoring plan design
- Covers entire Region – regardless of Coalition boundaries
- Consistency in sampling approach
- Consistency in laboratory analyses



# UC and Coalition Monitoring Information Available Today

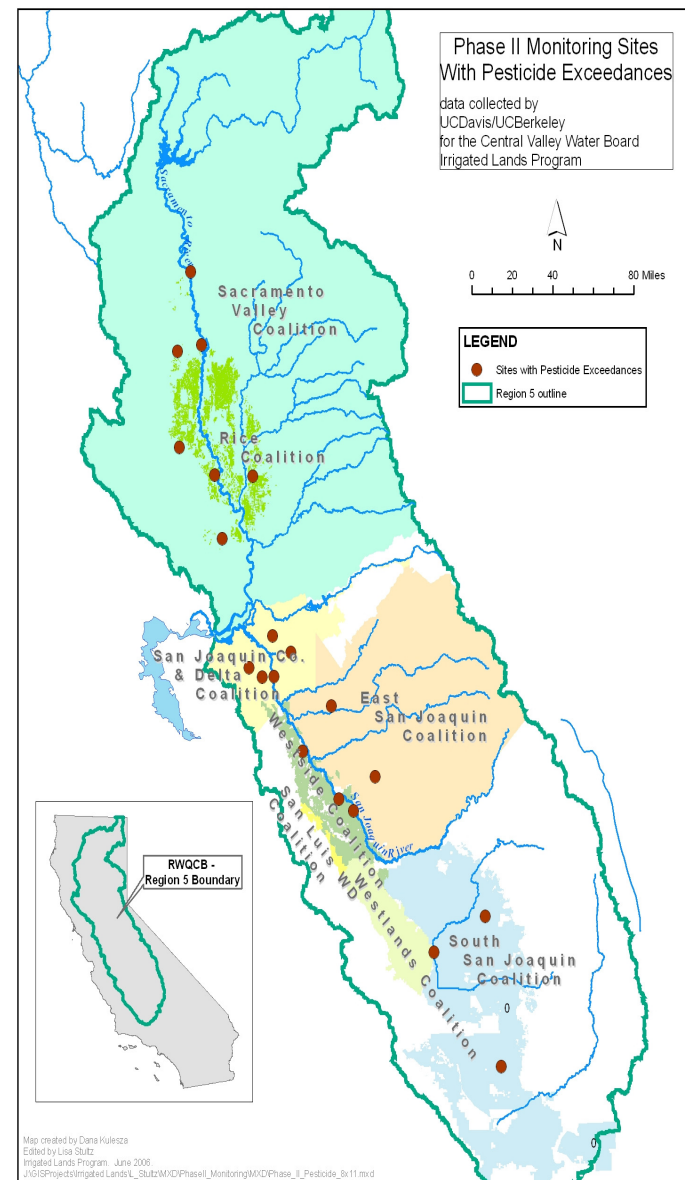
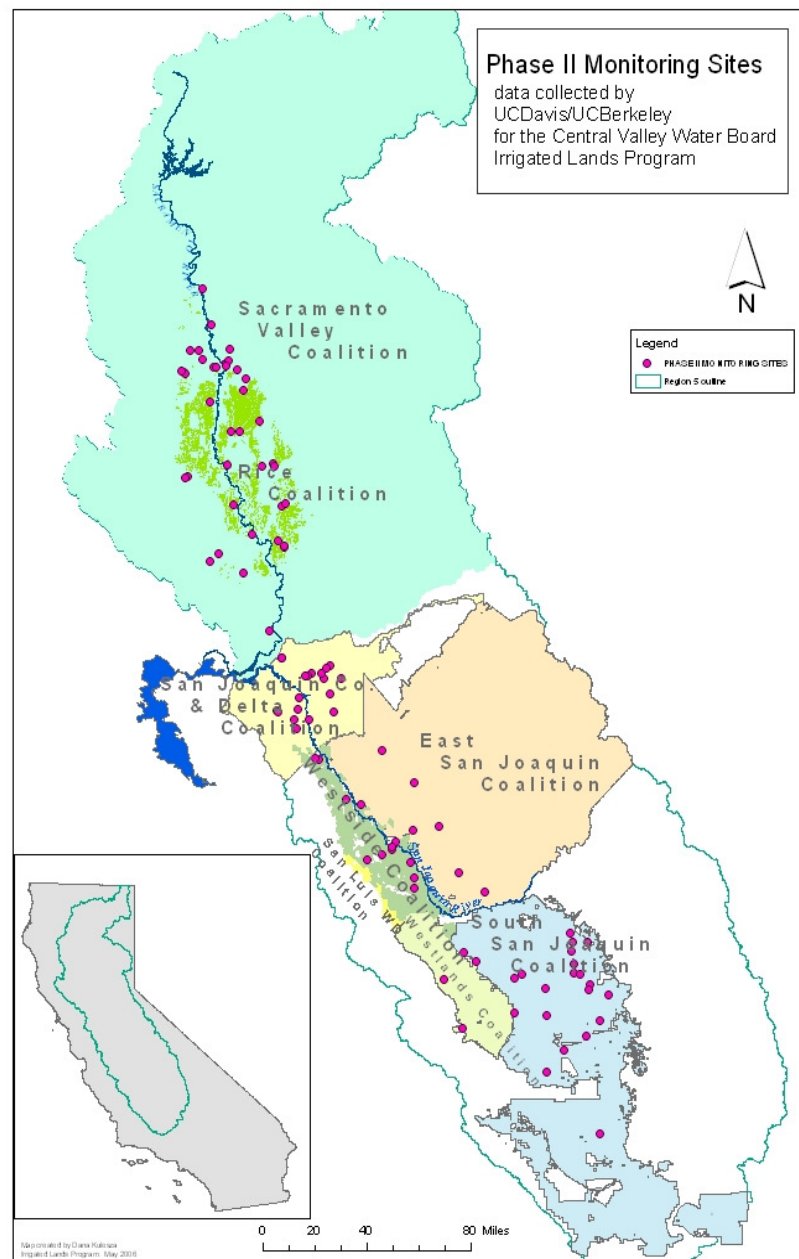
Water column pesticides – 2004-2005

Sediment pesticide analyses – 2004 only

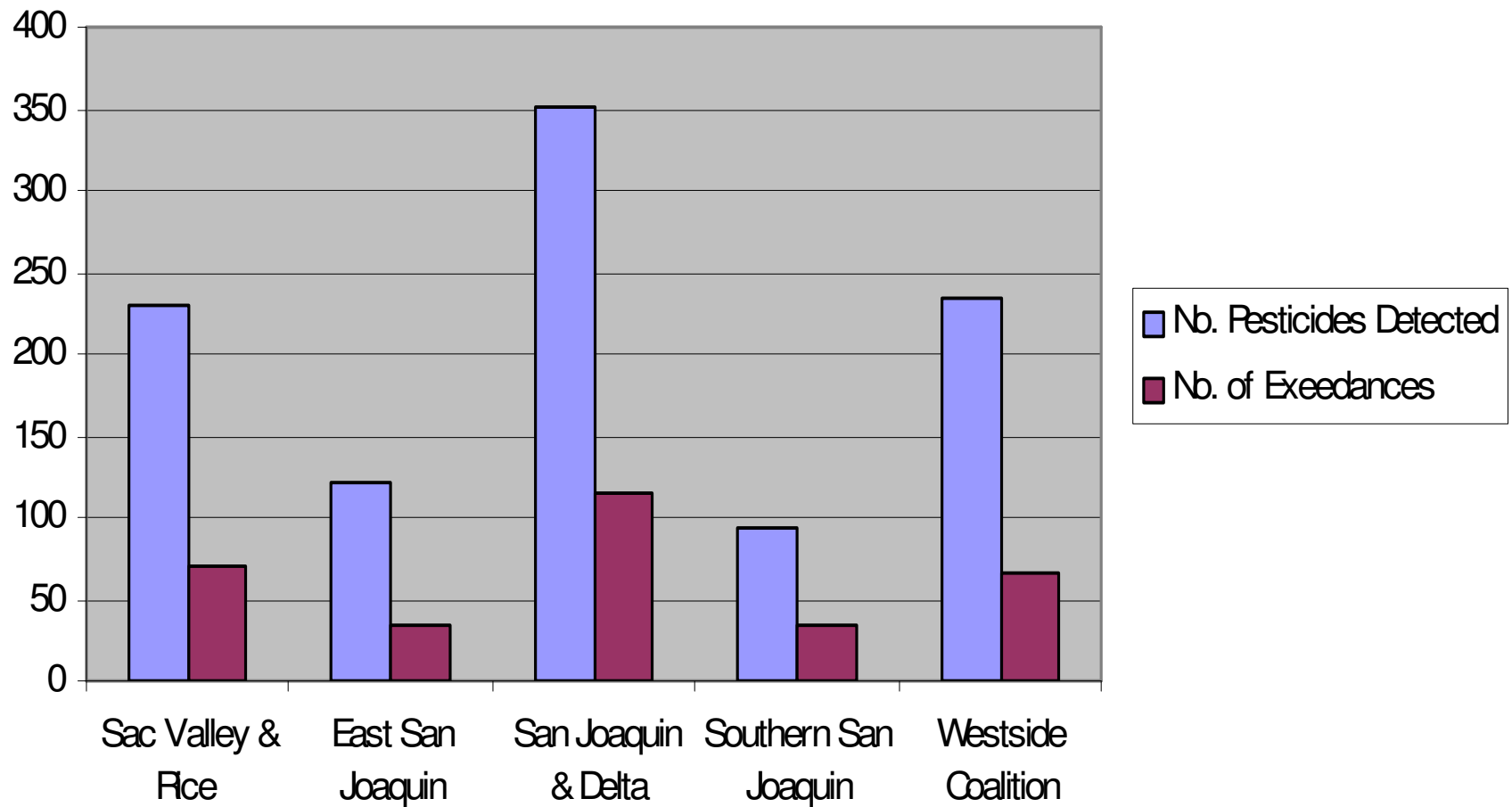
Toxicity Results – sediment and water

# Pesticide Detections in Water

- About 5% pesticides tested showed detectable levels (885 detects)
- 328 Detects above water quality limits: 37%
- Most exceedances in diazinon, chlorpyrifos, DDT and breakdown products
- Apx. 92 % sites had pesticides, 64% exceeded limits



## DRAFT Summary of Pesticide Monitoring in Water - Coalition and UC Monitoring, 2004-2005



# Pesticide Detections in Sediment

- About 15% pesticides tested were at detectable levels
- No sediment quality objectives
- Toxicity analyses will be used to make some conclusions about impairments
- Questions remain, and more analysis is necessary

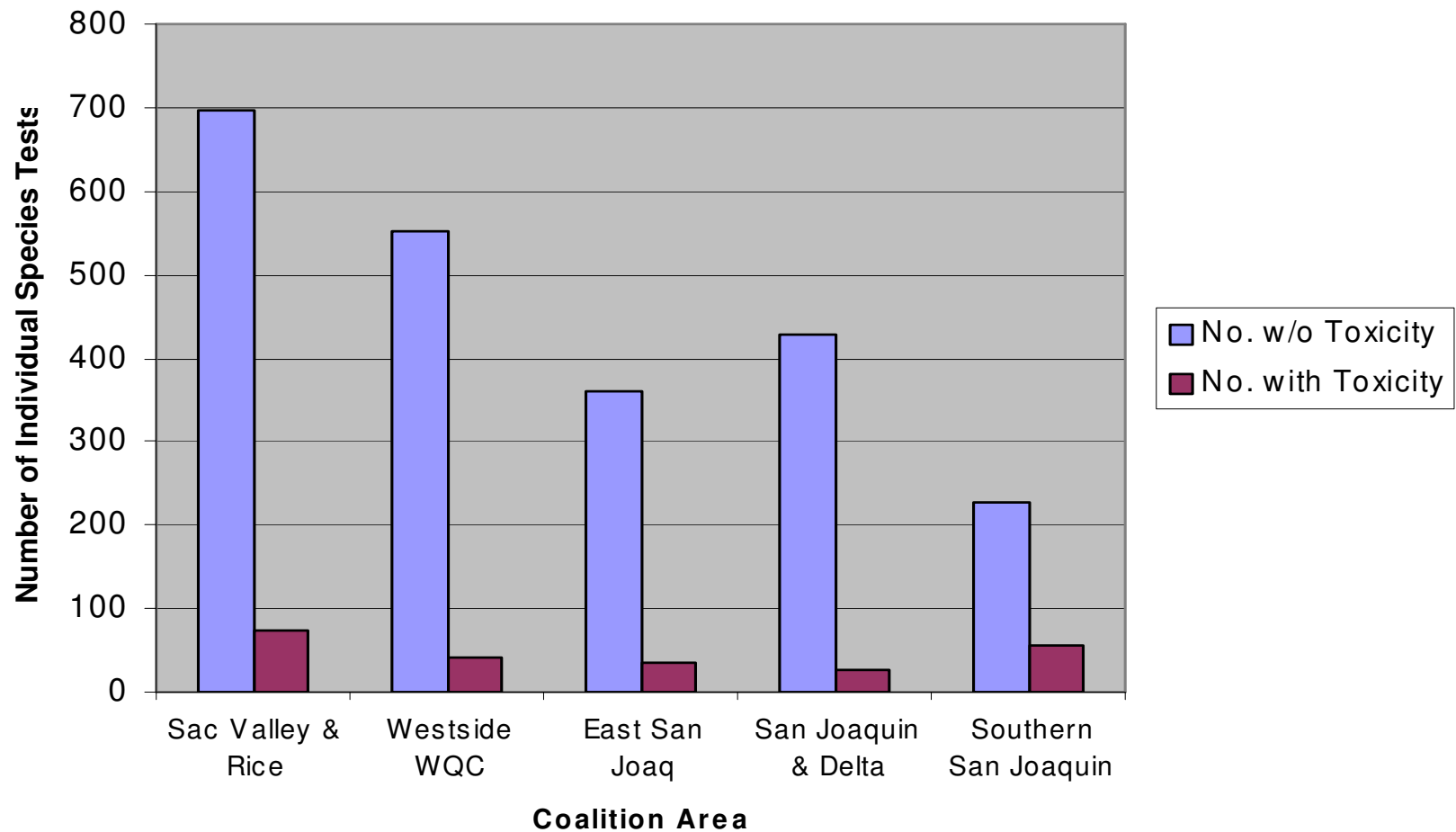
# Toxicity Information

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- **Informs about Additivity of toxicants**
- **Informs about contaminants that may not be on the test list**
- **Combined with TIE, helps identify cause of toxicity**



**DRAFT Summary of Toxicity Results - Coalition and UC Monitoring 2004-2005**



# Toxicity Summary.

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Toxicity is found throughout Central Valley – within all coalitions

Overall water toxicity apx. 13%

Sediment toxicity 27-42%

# Questions? Discussion?

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**Thank You for Listening.....**